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Reusability library framework (RLF)

J. J. Solderitsch, M. A. Simos, K. C. Wallnau

July 1989 Proceedings of the conference on TRI-Ada '88

Publisher: ACM Press

Full text available: pdf(1.56 MB) Additional Information: full citation, references, index terms

Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(4.21 MB)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

A fully reusable class of objects for synchronization and communication in Ada 95



Patrick de Bondeli

March 1999 ACM SIGAda Ada Letters, Volume XIX Issue 1

Publisher: ACM Press

Additional Information: full citation, abstract, index terms Full text available: pdf(1.87 MB)

This paper presents a very general class which can be reused to specify and implement any type exporting synchronization or communication properties. The new Ada 95 features modelling inheritance, polymorphism and hierarchies of library units are used extensively in describing the architecture of the class and other new features (access to subprograms, protected types, …) are used for the specification and implementation of the components of the class. Section 2 presents the general ar ...

Generating ECAD framework code from abstract models Joachim Altmeyer, Bernd Schürmann, Martin Schütze



January 1995 Proceedings of the 32nd ACM/IEEE conference on Design automation

Publisher: ACM Press

Full text available: T pdf(60.96 KB) Additional Information: full citation, references, citings, index terms

5 A reuse approach based on object orientation: its contributions in the development of



CASE tools

Henda Hadjami Ben Ghezala, Farouk Kamoun

August 1995 ACM SIGSOFT Software Engineering Notes, Proceedings of the 1995 Symposium on Software reusability SSR '95, Volume 20 Issue SI

Publisher: ACM Press

Full text available: pdf(958.61 KB)

Additional Information: full citation, abstract, references, citings, index terms

The aim of this paper is to present an approach to facilitate reuse. This approach, which is based on an object oriented design method, describes a way of structuring components and reuse library. Two concepts, domain and theme, are introduced to allow a classification of components by the services that they offer and by application domain. The library itself is organized in three hierarchical levels -general, dedicated and personal-, where the reusable components are stored acco ...

Using VRML as an interface to the 3D data warehouse



Volker Coors, Volker Jung

February 1998 Proceedings of the third symposium on Virtual reality modeling language

Publisher: ACM Press

Full text available: pdf(1.96 MB)

Additional Information: full citation, references, citings, index terms

Design and implementation of generics for the .NET Common language runtime



Andrew Kennedy, Don Syme

May 2001 ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2001 conference on Programming language design and implementation PLDI '01, Volume 36 Issue 5

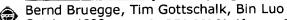
Publisher: ACM Press

Full text available: pdf(1.25 MB)

Additional Information: full citation, abstract, references, citings, index terms

The Microsoft.NET Common Language Runtime provides a shared type system, intermediate language and dynamic execution environment for the implementation and inter-operation of multiple source languages. In this paper we extend it with direct support for parametric polymorphism (also known as generics), describing the design through examples written in an extended version of the C# programming language, and explaining aspects of implementation by reference to a prototype extension to the runtim ...

A framework for dynamic program analyzers



October 1993 ACM SIGPLAN Notices, Proceedings of the eighth annual conference on Object-oriented programming systems, languages, and applications OOPSLA '93, Volume 28 Issue 10

Publisher: ACM Press

Additional Information: full citation, references, citings, index terms Full text available: pdf(2.16 MB)

⁹ A framework for the efficient Petri net simulation of real-time systems

William M. Evanco, Jeffrey Yang

April 1992 Proceedings of the 25th annual symposium on Simulation ANSS '92

Publisher: IEEE Computer Society Press

Full text available: pdf(870.56 KB) Additional Information: full citation, references, index terms

10 Techniques for obtaining high performance in Java programs

Iffat H. Kazi, Howard H. Chen, Berdenia Stanley, David J. Lilja
September 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 3

Publisher: ACM Press

Full text available: pdf(816.13 KB)

Additional Information: full citation, abstract, references, citings, index terms

This survey describes research directions in techniques to improve the performance of programs written in the Java programming language. The standard technique for Java execution is interpretation, which provides for extensive portability of programs. A Java interpreter dynamically executes Java bytecodes, which comprise the instruction set of the Java Virtual Machine (JVM). Execution time performance of Java programs can be improved through compilation, possibly at the expense of portabili ...

Keywords: Java, Java virtual machine, bytecode-to-source translators, direct compilers, dynamic compilation, interpreters, just-in-time compilers

11 A fully reusable class of objects for synchronization and communication in Ada 95

Patrick de Bondeli

October 1997 ACM SIGAda Ada Letters, Proceedings of the eighth international workshop on Real-Time Ada IRTAW '97, Volume XVII Issue 5

Publisher: ACM Press

Full text available: pdf(530.02 KB) Additional Information: full citation, citings, index terms

Overture: an object-oriented framework for high performance scientific computing Federico Bassetti, David Brown, Kei Davis, William Henshaw, Dan Quinlan November 1998 Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: IEEE Computer Society

Full text available: html(27.93 KB) Additional Information: full citation, abstract, references, citings

The Overture Framework is an object-oriented environment for solving PDEs on serial and parallel architectures. It is a collection of C++ libraries that enables the use of finite difference and finite volume methods at a level that hides the details of the associated data structures, as well as the details of the parallel implementation. It is based on the A++/P++ array class library and is designed for solving problems on a structured grid or a collection of structured grids. In particul ...

Keywords: computer software, differential equation solvers, hydrodynamics, object-oriented frameworks

13 A class library management system for object-oriented programming

Kek Wee Ng, Jian Ma, Gi-Moon Nam

March 1993 Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice

Publisher: ACM Press

Full text available: pdf(625.76 KB) Additional Information: full citation, references, index terms

Keywords: class library management and software reusability, object-oriented, relational data dictionary, software development

14 JAFMAS: a multiagent application development system

Deepika Chauhan, Albert D. Baker

May 1998 Proceedings of the second international conference on Autonomous agents

Publisher: ACM Press

Full text available: pdf(1.03 MB) Additional Information: full citation, references, index terms

15 Specification matching of software components

Volume 6 Issue 4

Amy Moormann Zaremski, Jeannette M. Wing October 1997 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Publisher: ACM Press

Full text available: pdf(481.87 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Specification matching is a way to compare two software components, based on descriptions of the component's behaviors. In the context of software reuse and library retrieval, it can help determine whether one component can be substituted for another or how one can be modified to fit the requirements of the other. In the context of object-oriented programming, it can help determine when one type is a behavioral subtype of another. We use formal specifications to describe the behavior of sof ...

16 Reuse library interoperability and the World Wide Web

Shirley V. Browne, James W. Moore

May 1997 Proceedings of the 19th international conference on Software engineering

Publisher: ACM Press

Full text available: pdf(1.29 MB) Additional Information: full citation, references, citings, index terms

17 Special issue: Al in engineering

D. Sriram, R. Joobbani

April 1985 ACM SIGART Bulletin, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

engineering: twenty-first century applications SIGSOFT '00/FSE-8,

18 Extracting library-based object-oriented applications

Peter F. Sweeney, Frank Tip
November 2000 ACM SIGSOFT Software Engineering Notes, Proceedings of the 8th
ACM SIGSOFT international symposium on Foundations of software

Volume 25 Issue 6

Publisher: ACM Press

Full text available: pdf(1.06 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

In an increasingly popular model of software distribution, software is developed in one computing environment and deployed in other environments by transfer over the internet. Extraction tools perform a static whole-program analysis to determine unused functionality in applications in order to reduce the time required to download applications. We have identified a number of scenarios where extraction tools require information beyond what can be inferred through static analysis: software distr ...

19 Reuse library interoperability and the World Wide Web

Shirley V. Browne, James W. Moore

May 1997 ACM SIGSOFT Software Engineering Notes, Proceedings of the 1997 symposium on Software reusability SSR '97, Volume 22 Issue 3

Publisher: ACM Press

Full text available: pdf(1.16 MB)

Additional Information: full citation, references, citings, index terms

20 A framework for distributed object-oriented multimodeling and simulation

Robert M. Cubert, Paul A. Fishwick

December 1997 Proceedings of the 29th conference on Winter simulation

Publisher: ACM Press

Full text available: pdf(954.65 KB) Additional Information: full citation, references, index terms

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